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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/817,023	04/02/2004	Salvatore V. Pizzo	5405-304	2746
	7590 07/29/200 L SIBLEY & SAJOVE	EXAMINER		
PO BOX 37428			LE, EMILY M	
RALEIGH, NC 27627			ART UNIT	PAPER NUMBER
			1648	
			MAIL DATE	DELIVERY MODE
			07/29/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/817,023	PIZZO ET AL.			
Office Action Summary	Examiner	Art Unit			
	EMILY M. LE	1648			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) ☐ Responsive to communication(s) filed on <u>02 Ar</u> 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 4,16-20 and 28-35 is/are pending in the 4a) Of the above claim(s) 20 is/are withdrawn find 5) Claim(s) is/are allowed. 6) Claim(s) 14,16-19 and 28-35 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or are subject to restriction and/or are subject to by the Examine. 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the content of the cont	rom consideration. r election requirement. r. epted or b) □ objected to by the B				
Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/02/2009 has been entered.

Status of Claims

2. Claims 1-13, 15 and 21-27 are cancelled. Claims 29-35 are added. Claims 14, 16-20 and 28-35 are pending. Claim 20 is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 10/04/2006. Claims 14, 16-19 and 28-35 are under examination.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 14, 16-19 and 28-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Trinchieri et al.¹

The claims are directed to the administration of an immunogen with Compound 48/80, in a pharmaceutical carrier, to a subject to induce an immune response in the subject. Claim 16, which depends on claim 14, requires the administration be parenteral. Claims 17-19, which depend on claim 14, require the immune response to be prophylactic, therapeutic and humoral, respectively. Claim 28, which depends on claim 14, requires the administration be mucosal. Claims 29-34 are directed to the method of claims 14, 16, 28, 17-19, respectively.

Trinchieri et al. teaches the administration of an immunogen with Compound 48/80 to a subject to induce an immune response in the subject. [Claims 1 and 9, in particular.] Trinchieri et al. refers to Compound 48/80 as calmidazolium. Both Compound 48/80 and calmidazolium have the same CAS number, 94724-12-6.

Trinchieri et al. does not teach the inclusion of the immunogen and Compound 48/80 with a pharmaceutical carrier. However, Trinchieri et al. suggests the use of a pharmaceutically acceptable carrier to facilitate delivery/administration. It would have been prima facie obvious for one of ordinary skill in the art, at the time the invention was made, to include a pharmaceutically acceptable carrier with the composition of Trincheiri et al. One of ordinary skill in the art, at the time the invention was made, would have been motivated to do so to facilitate delivery and administration of the composition. One of ordinary skill in the art, at the time the invention was made, would

¹ Trinchieri et al. U.S. Patent No. 6375944, published April 23, 2002.

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have had a reasonable expectation of success for doing so because the use of pharmaceutically acceptable carrier is routinely practiced in the art.

It is noted that Trinchieri et al. does not teach either parenteral or mucosal administrations. However, at the time the invention it was made, it would have been prima facie obvious for one of ordinary skill in the art to administer the composition rendered obvious by Trinchieri et al. parenterally or mucosally. One of ordinary skill in the art, at the time the invention was made, would have been motivated to do so to facilitate administration of the composition. One of ordinary skill in the art, at the time the invention was made, would have had a reasonable expectation of success for doing so because the use of various administration protocol, including parenteral and mucosal, is routinely practiced in the art.

Conclusion

- 5. No claim is allowed.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to EMILY M. LE whose telephone number is (571)272-0903. The examiner can normally be reached on Monday Friday, 8 am 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Nickol can be reached on (571) 272-0835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/EMILY M LE/ Primary Examiner, Art Unit 1648

/E. M. L./ Primary Examiner, Art Unit 1648